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(US). STEPHENSON, Philip [US/US]; 2740 Bent Tree Drive, Dexter, MI 48130 (US).

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(74) Agents: SCHWAAB, Richard, L. et al.; Foley & Lardner LLP, Washington Harbour, 3000 K Street, N.W., Suite 500, Washington, DC 20007-5143 (US).

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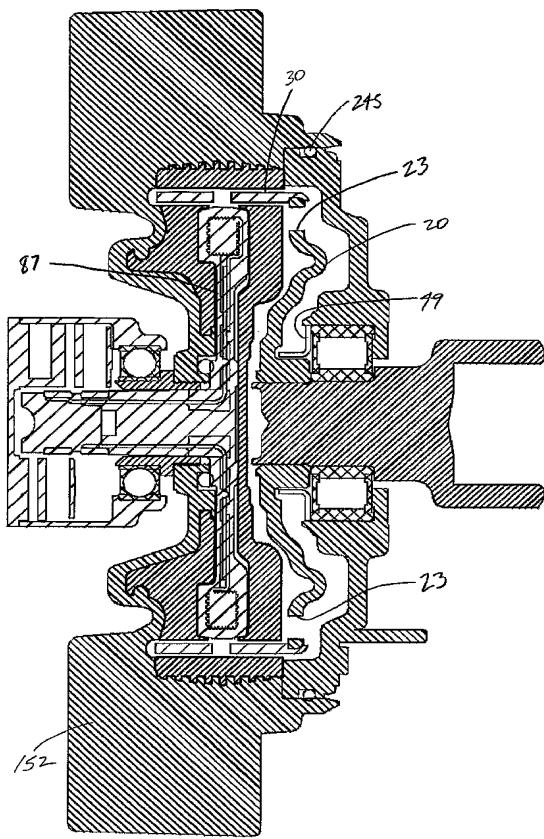
(71) Applicant (for all designated States except US): BEHR AMERICA, INC. [US/US]; 1307 Highview Drive, Webberville, MI 48892 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KENNEDY, Lawrence, C. [US/US]; 4865 Ledgewood Drive, Commerce Twp., MI 48382 (US). GALLAGHER, James, F. [US/US]; 1151 North Alstott Drive, Howell, MI 48843

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(54) Title: VISCOS FLUID CLUTCH ASSEMBLY



(57) Abstract: A viscous fluid clutch (1) for use as a clutch for a cooling fan for a vehicle, the clutch includes an input shaft (10), a rotor assembly (20, 30), a first housing portion (52), a second housing portion (42), a coil assembly (80), and a brush box (105). The rotor assembly is coupled to the input shaft. The first housing portion is coupled to the second housing portion and the second housing portion is rotatably disposed on the input shaft. The first and second housing portions define a fluid reservoir (16) for receiving the rotor assembly and a viscous fluid, preferably of the magnetorheological type. The coil assembly is coupled to the first housing portion. The brush box is operably coupled to the coil assembly. When the coil assembly is energized by the brush box, a magnetic field is created that acts upon the magnetorheological fluid to vary the torque transfer of the input shaft to the housing and the fan connected thereto.



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